

Title (en)  
HIGH STRENGTH COLD ROLLED STEEL SHEET FOR AUTOMOTIVE USE HAVING EXCELLENT GLOBAL FORMABILITY AND BENDING PROPERTY

Title (de)  
HOCHFESTES KALTGEWALZTES STAHLBLECH ZUR AUTOMOBILVERWENDUNG MIT HERVORRAGENDER GLOBALER FORMBARKEIT UND BIEGEEIGENSCHAFT

Title (fr)  
TÔLE D'ACIER LAMINÉE À FROID À HAUTE RÉSISTANCE POUR UNE UTILISATION AUTOMOBILE AYANT UNE EXCELLENTE FORMABILITÉ GLOBALE ET UNE EXCELLENTE PROPRIÉTÉ DE FLEXION

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Application  
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Abstract (en)  
[origin: WO2022214488A1] The invention relates to a high strength cold rolled steel sheet having a composition consisting of the following elements (in wt. %): C 0.08 – 0.14, Mn 2.5 – 3.0, Si 0.7 – 1.1, Cr 0.05 – 0.4. Optionally Al ≤ 0.2, Nb ≤ 0.1, Mo ≤ 0.1, V ≤ 0.1, Ti ≤ 0.1, Ca ≤ 0.05, Cu ≤ 0.1, Ni ≤ 0.2, B ≤ 0.005 balance Fe apart from impurities. The steel having a yield ratio ≤ 0.72 and a bendability (Ri/t) is ≤ 2.0. The invention also relates to a method manufacturing the steel sheet and an automotive structural part comprising the steel sheet.

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